

CLAIMS

1. A wireless communications link between a communication line connector and at least one audio-visual device, said communications link comprising:

a communication line side unit including:

a communication line side connector for engagement with said communication line connector for bidirectional audio-visual data communication, providing communication between a communication line and said at least one audio-visual device;

a communication line side infrared transmitter adapted to transmit diffuse infrared radiation corresponding to said data communication; and

a communication line side infrared receiver adapted to receive diffuse infrared radiation corresponding to said data communication; and

an audio-visual device side unit including:

an audio-visual device side connector for engagement with said at least one audio-visual device for bidirectional signal communication therewith via a universal serial bus (USB);

an audio-visual device side infrared transmitter adapted to transmit diffuse infrared radiation to said communication line side infrared receiver; and

an audio-visual device side infrared receiver adapted to receive diffuse infrared radiation from said communication line side infrared transmitter.

2. A wireless communications link according to claim 1, wherein said communication line includes a telephone line, and wherein said communication line side connector is adapted to provide communication between said telephone line and said at least one audio-visual device.

3. A wireless communications link according to claim 1, wherein said communication line includes a cable television line, and wherein said communication line side connector is adapted to provide communication between said cable television line and said at least audio-visual device.

4. A wireless communications link according to claim 1, wherein said communication line includes a power line, and wherein said communication line side connector is adapted to provide communication between said power line and said at least one audio-visual device.

5. A wireless communications link according to claim 1 and wherein said at least one audio-visual device comprises a television.

6. A wireless communications link according to claim 5 and wherein said signal communication comprises communication of television information over the internet.

7. A wireless communications link according to claim 1 and wherein said communication line side unit also comprises a unitary housing enclosing said communication line side connector, said communication line side infrared transmitter and said communication line side infrared receiver.

8. A wireless communications link according to claim 1 and wherein said audio-visual device side unit also comprises a unitary housing enclosing said audio-visual device side connector, said audio-visual device side infrared transmitter, and said audio-visual device side infrared receiver.

9. A wireless communication link according to claim 1 and wherein said at least one audio-visual device comprises a computer.

004780" 081400

10. A wireless communications link according to claim 1 and wherein said audio-visual device side unit is external to said at least one audio-visual device.

11. A wireless communications link according to claim 1 and wherein said signal communication is full-duplex communication.

12. A wireless communications adapter between a cable television line (CTL) connector and at least one audio-visual device, said communications link comprising:

a CTL side connector for engagement with said CTL connector for bidirectional audio-visual data communication, providing data communication between a CTL and said at least one audio-visual device;

a CTL side infrared transmitter adapted to transmit diffuse infrared radiation corresponding to said data communication; and

a CTL side infrared receiver adapted to receive diffuse infrared radiation corresponding to said data communication.

13. A wireless communications adapter according to claim 12, and comprising:

an audio-visual device side connector for engagement with said at least one audio-visual device for bidirectional signal communication therewith;

an audio-visual device side infrared transmitter adapted to transmit diffuse infrared radiation to said CTL side infrared receiver; and

an audio-visual device side infrared receiver adapted to receive diffuse infrared radiation from said CTL side infrared transmitter.

14. A wireless communications adapter according to claim 12 and wherein said at least one audio-visual device comprises a television.

15. A wireless communications adapter according to claim 12 and wherein said data communication comprises

communication of television information over the internet.

16. A wireless communications adapter according to claim 12 and comprising a unitary housing enclosing said CTL side connector, said CTL side infrared transmitter and said CTL side infrared receiver.

17. A wireless communication adapter according to claim 12 and wherein said at least one audio-visual device comprises a computer.

18. A wireless communications adapter according to claim 12 and wherein said data communication is full-duplex communication.

19. A wireless communications adapter between an alternating current (AC) power line connector and at least one audio-visual device, said power line connector providing a connection to an AC power line over which communication signals are modulated, said communications link comprising:

an AC power line side connector for engagement with said AC power line connector;

a line modem, for providing bidirectional audio-visual data communication over said AC power line with said at least one audio-visual device;

an AC power line side infrared transmitter adapted to transmit diffuse infrared radiation corresponding to said data communication; and

an AC power line side infrared receiver adapted to receive diffuse infrared radiation corresponding to said data communication.

20. A wireless communications adapter according to claim 19, and comprising:

an audio-visual device side connector for engagement with said at least one audio-visual device for bidirectional signal communication therewith;

an audio-visual device side infrared transmitter adapted to transmit diffuse infrared radiation to said AC power line side infrared receiver; and

an audio-visual device side infrared receiver adapted to receive diffuse infrared radiation from said AC power line side infrared transmitter.

21. A wireless communications adapter according to claim 19 and wherein said at least one audio-visual device comprises a television.

22. A wireless communications adapter according to claim 21 and wherein said data communication comprises communication of television information over the internet.

23. A wireless communications adapter according to claim 19 and comprising a unitary housing enclosing said AC power line side connector, said AC power line side infrared transmitter and said AC power line side infrared receiver.

24. A wireless communication adapter according to claim 19 and wherein said at least one audio-visual device comprises a computer.

25. A wireless communications adapter according to claim 19 and wherein said data communication is full-duplex communication.

26. A method for wireless communications between a communication line and at least one audio-visual device, comprising exchanging audio-visual data in a bidirectional manner, using diffuse infrared radiation, between an infrared unit coupled to said communication line and an infrared unit coupled via a universal serial bus (USB) to said at least one audio-visual device.

27. A method according to claim 26, wherein said communication line includes a telephone line, and wherein exchanging the data comprises providing communication

between the telephone line and the at least one audio-visual device.

28. A method according to claim 26, wherein said communication line includes a cable television line, and wherein exchanging the data comprises providing communication between the cable television line and the at least one audio-visual device.

29. A method according to claim 26, wherein said communication line includes a power line, and wherein exchanging the data comprises providing communication between the power line and the at least one audio-visual device.

30. A method according to claim 26, wherein exchanging the data comprises receiving television information over the internet.

31. A method according to claim 26, wherein exchanging the data comprises exchanging the data using full-duplex communication.

32. A method for wireless communications between a cable television line and at least one audio-visual device, comprising exchanging audio-visual data in a bidirectional manner, using diffuse infrared radiation, between an infrared unit coupled to said cable television line and an infrared unit coupled to said at least one audio-visual device.

33. A method according to claim 32, wherein exchanging the data comprises receiving television information over the internet.

34. A method according to claim 32, wherein exchanging the data comprises exchanging the data using full-duplex communication.

35. A method for wireless communications between an alternating current (AC) power line and at least one audio-visual device, comprising exchanging audio-visual

data in a bidirectional manner, using diffuse infrared radiation, between an infrared unit coupled to said power line and an infrared unit coupled to said at least one audio-visual device.

36. A method according to claim 35, wherein exchanging the data comprises receiving television information over the internet.

37. A method according to claim 35, wherein exchanging the data comprises exchanging the data using full-duplex communication.

004T80" 0T88E960